



Graphing Systems of Linear Inequalities

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12:12 PM

Line

- solid if \leq or \geq and $\in \mathbb{R}$ ← include decimals
- ... stippled if \leq or \geq and $\in \mathbb{I}, \mathbb{W},$ or \mathbb{N}
- dashed if $<$ or $>$ and any number system

Solution Area

-  shaded if $\in \mathbb{R}$
-  stippled if $\in \mathbb{I}, \mathbb{W},$ or \mathbb{N}

Graphing $y = mx + b$ ($m = \text{slope}$, $b = \text{y-intercept}$)

- ① Graph line (deciding if solid, stippled, or dashed)
- ② Choose test point, not on the line, plug into original equation. If true then shade/stipple the side including test point. If false then shade/stipple other side.
- ③ Do the same for the other equation
- ④ Where the shaded/stippled areas overlap is the solution of the system of inequalities.